

GenCore version 4.5
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OK nucleic - nucleic search, using sw model

Run on: November 9, 2001, 09:52:24 ; Search time 50.87 Seconds
(Without alignments)
7394.927 Million cell updates/sec

Title: US-09-001-737-7
Perfect score: 1661
Sequence: 1 GAATTCGCGCTCATATGCGCA.....TGGCGGATAGCGCAATTC 1661

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 351203 seqs, 11323899 residues

Total number of hits satisfying chosen parameters: 702406

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued Patents_NA:*
1: /cgn2_6/ptodata/2/ina/5A.COMB.seq:*
2: /cgn2_6/ptodata/2/ina/5B.COMB.seq:*
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5: /cgn2_6/ptodata/2/ina/PCFUS.COMB.seq:*
6: /cgn2_6/ptodata/2/ina/Backfiles1.seq:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	589.8	35.5	1647	4	US-09-472-971-5
2	589.8	35.5	4524	4	US-09-472-971-7
3	528.6	31.8	1838	3	US-08-470-260-7
4	528.6	31.8	1838	3	US-08-471-491-7
5	528.6	31.8	1838	3	US-08-466-662-7
6	496.6	29.9	2284	2	US-08-467-822-28
7	496.6	29.9	2284	4	US-08-432-697-28
8	496.6	29.9	2284	4	US-08-466-248-28
9	458.6	27.6	4403765	4	US-09-103-840A-2
10	458.6	27.6	4411529	4	US-09-103-840A-1
11	446.8	26.9	1626	2	US-08-997-080-139
12	446.8	26.9	1626	2	US-08-997-362-139
13	446.8	26.9	1626	4	US-09-095-855-159
14	444.8	26.8	1569	2	US-08-997-080-113
15	444.8	26.8	1569	4	US-09-095-855-113
16	444.8	26.8	1569	4	US-09-095-855-113
17	416.6	25.1	1620	2	US-08-461-775-10
18	416.6	25.1	1620	3	US-09-031-606-10
19	411	24.7	2668	2	US-08-461-775-11
20	411	24.7	2668	3	US-09-031-606-11
21	362	21.8	1320	2	US-08-461-775-8
22	362	21.8	1320	2	US-09-031-606-8
23	353.2	21.3	2167	3	US-08-461-775-9
24	353.2	21.3	2167	3	US-09-031-606-9
25	273.8	16.5	985	2	US-08-997-080-161
26	273.8	16.5	985	2	US-08-997-362-161
27	273.8	16.5	985	4	US-09-095-855-161

28	271.8	16.4	927	2	US-08-997-080-116	Sequence 116, App
29	271.8	16.4	927	2	US-08-997-362-116	Sequence 116, App
30	271.8	16.4	927	4	US-09-095-855-116	Sequence 116, App
31	178.4	10.7	568	3	US-08-714-918-51	Sequence 51, Appl
32	178.4	10.7	568	4	US-09-265-315-51	Sequence 51, Appl
33	178.4	10.7	568	4	US-09-265-315-51	Sequence 51, Appl
34	178.4	10.7	568	4	US-09-265-417-51	Sequence 51, Appl
35	176.6	10.6	647	2	US-08-997-080-115	Sequence 115, App
36	176.6	10.6	647	2	US-08-997-362-115	Sequence 115, App
37	176.6	10.6	647	4	US-09-095-855-115	Sequence 115, App
38	101.2	6.1	343	2	US-08-473-020A-7	Sequence 7, Appl
39	100.4	6.0	337	2	US-08-997-080-77	Sequence 77, Appl
40	100.4	6.0	337	2	US-08-997-362-77	Sequence 77, Appl
41	100.4	6.0	337	3	US-08-873-970-77	Sequence 77, Appl
42	100.4	6.0	337	4	US-09-095-855-77	Sequence 77, Appl
43	97.4	5.9	350	1	US-08-105-168B-22	Sequence 22, Appl
44	97.4	5.9	350	2	US-08-698-948-22	Sequence 22, Appl
45	94.8	5.7	342	2	US-08-473-020A-31	Sequence 31, Appl

ALIGNMENTS

RESULT 1
US-09-472-971-5
; Sequence 5, Application US/09472971
; Patent No. 6197547
; GENERAL INFORMATION:
; APPLICANT: SOGO, Kazuyo
; APPLICANT: YANAGI, Hideki
; APPLICANT: YURA, Takashi
; TITLE OF INVENTION: TRIGGER FACTOR EXPRESSION PLASMIDS
; FILE REFERENCE: 1422-409P
; CURRENT APPLICATION NUMBER: US/09/472, 971
; EARLIER FILING DATE: 1998-12-28
; EARLIER APPLICATION NUMBER: JP10-372965
; NUMBER OF SEQ ID NOS: 7
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO: 5
; LENGTH: 1647
; TYPE: DNA
; ORGANISM: Escherichia coli
US-09-472-971-5

Query Match 35.5%; Score 589.8; DB 4; Length 1647;
Best Local Similarity 61.3%; Pred. No. 1.3e-164;
Matches 985; Conservative 0; Mismatches 617; Indels 6; Gaps 2;
OY 18 GCAAAAGAAATCAATTTTCAGCAGATGCGCGCTGCCAGTCGCGCGAGTTGATATG 77
Db 7 gctaaagacgtataaatctcgtaacgacgtcgtaagaaatgctgcgagcgttaaacgta 66
OY 78 TTACGACATACCGTCAAGTACGCTGGTCTTAAGGCGCAATGTTCTTGAANA 137
Db 67 ctggagacgtatgagaaatgtaacgtccctcggtccaaagcgctaacgtatgtaaa 126
OY 138 GCTTTGATGCTCCCTTAATTAATTAATGACGGGATTAACCATTTGTAAGATGAATTA 197
Db 127 tcttcggtgacgtacgtacgtacgtacgtacgtacgtacgtacgtacgtacgtacgtac 186
OY 198 GAAGATCATTTTGAACATGAGCAAAATGCTGTGAAGTGCTTGAAGGCTTGAACAA 257
Db 187 gaagaacagtcgaataatggtgctgcagatggtgaagaagagtgctcttaagaacaa 246
OY 258 GATATTGCTGTGATGAGCAGACTACTGCAACAGTTTGACACAAAGCATTTGATGA 317
Db 247 gacgctgagcgagcagcgttacccacgtgaacgtacgtacgtacgtacgtacgtac 306
OY 318 GGACTAAATAATGACAGAGGTGTATCCATGTGTATCCGTGACAGCATTTGAACA 377
Db 307 ggtcgaagcgtgctgcgagcatgaaaccgcatgacgtgaacgtgtaacgtgtaacaa 366

Oy	378	GCACACGACAAAGCTGTTGAAGCTTTGAAAAGCATTTGCTATCAACTGTATCTTGCAAGGAA	437
Db	367	ggcggtaccgctcgtcagatcttgaagaccctgaagcgtctgcgttacacgtcctctactaa	426
Oy	438	GCTATTGCTACAGGTGCGCTGCAGTATATCAAGCTC--TTAAAAATCTTGAAGATATAC	494
Db	427	gcgatttgcctcaggtcttgcacatcttcgcgttaactccgcagaaacgttagttaaactgac	466
Oy	495	TCAAGAAAGTATAGAGAGCGCTGGGCAACAGATGCTGTGATTACATCGAAGATCTGAGCT	554
Db	487	gctgaagagataggaacaaagtcggttaaaagagcttaccgcgttgaagacgttacgcgt	546
Oy	555	ATGGAAACACAACTTGAAGTGGTTGAAGCATGCAATTTGACCGTGGTTACTGCTCAA	614
Db	547	ctcgacgagacgaacacgtgcgttgaagatctgcagttcgcagccgttgcatacctgtccct	606
Oy	615	TACATGGTACACAGACATGCAATAAAAATGGTTGCACACCTTGAAACCCATTTATATATC	674
Db	607	tactctacacaaacgaacgcggaactgcgcagtagaaacttgaaagcccggttaccctcgtc	666
Oy	675	ACGGATTAATAAAAGTGTCACAAATCCAAACACTTTTGGCACACTTGAAGAGTTCTTAAA	734
Db	667	gctgaacaaagaaatccacacatccgcgaaatctgcgtgttcctgaagcgtgtgtccaaa	726
Oy	735	ACCAACCGTCCATTACTATATTATGACATGATGTGATGTGAAGCACTTCCAAACCTT	794
Db	727	gcagcgacaaacgcgtctgcatacgtctgaagatgtagaagcgagacgcctgcacatgct	786
Oy	795	GTCCTGGAACAAGATTGCTGCTACTTCAATGATGGTTGGTCGTAAGGCCCGAGATTGGT	854
Db	787	gtcttcaacacatcgcgtgcacatctgtgaagctgcgcgtgttaaaagccgcggtcttcgc	846
Oy	855	GATCGTGTAAACCTATGCTGTGAAGACATTGCTATCTTACACAGTGGTACAGTGTATTACA	914
Db	847	gattcgtgttaagactctatctgcaggaataccgcaaccctgcgcggtgtaccgtgatatct	906
Oy	915	GAGATTTAGAGCTTGAAATTAAGATGCTACAAATGACAGCCCTTGCAGACGCTGTAAAG	974
Db	907	gaagaagctcgttatctgagcttgaagaaagcaacccttgaagaccttgcagctctaaagct	966
Oy	975	ATTACAGTTATATAAAGATAGACAGAGTATTGTGAAGTTCGAAAGTTGCAAGGATT	1034
Db	967	gtctgtacacaaagaaagaccacacatcatcatgattgcgtgcgtgtggaagagactgtaaac	1022
Oy	1035	GCTAAACCGTATGCACTGATTAATGCGCATTTGAAACAAACACTTGTGACTTTGACCGT	1094
Db	1027	cagggcgcgtgttcctcagatccgtccagcaatctgaagaagcaactctgcatacgcgt	1086
Oy	1095	GAAAAATCTACAAAGACTTTGGCATAATTAAGTGTGATGCTGTTATCAAGTAGA	1154
Db	1087	gaaaactctcgaagaaacgttagcgaacttgcgcgcgcgcgtgttcagttacaaagtggt	1146
Oy	1155	GCTCCACAGACAGCTTTAAAGAAATTAACCTCGATATGAGATGCTCAAAATGCT	1214
Db	1147	gtctgtaccgaagcttgaaatgaagagaaaaaagacgcgttgaagatgtccctgcacgcg	1206
Oy	1215	ACACGTGACGACCGGTGAAGAAAGATACCTTGCTGCTGCTGGAACAGCATTTATACGGTT	1274
Db	1207	accgcgtgcgtgttgaagaagcgcgtgttcgcgttgcgttgcgttcgcgtgcacgcgtta	1266
Oy	1275	ATTGAAAAGTAGCAGCTCTTGAGCTTGAAGGCGATGATGCTACTGTGACGTCAACA--TT	1331
Db	1267	ggcgtctaaactctgcgtacacttgcgttgcagaaacgaagaccgaagcgtgtgtatcaagtt	1326
Oy	1332	GTGCTTCGCTCTAGAAAGAGCGCTGACCTCAAAATGGTTAAATGCTGGGTACGAAGC	1391
Db	1327	gcactcgtgcgaatgaagacgtcgcgcgtgtcagatcgtattgaacactgcgtgcgaagaccg	1386
Oy	1392	TCCGTGATTATGACAGTTGAAAAACACACCTCGAGAGACAGGATTTAATCTGCAACA	1451
Db	1387	tcgtgtgtgtcctaaccgctttaaagcgcgcgcgcgaactacgtgtttacaaacgcagacga	1446

[illegible]

Query Match	Similarity	35.5%	Score 589.8	DB 4	Length 4524
Best Local	Similarity	61.3%	Pred. No. 2.3e-164		
Matches	986	Conservative	0	Mismatches	617
				Indels	6
				Gaps	2
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Db	389	gctaaagacgtataaattctcgttaacgcgcgtctgtctgtgaatgctgcgcgtgaataacgta	448		
QY	78	TTGACGATACCGTCAAGTAACGGTGGTCTCTAAAGCGGCAATTTGTTCTTGAAAA	137		
Db	449	cctgcagatgcagtgaaagattacccctcgylccaaagccgttaacgtatctctgataaa	508		
QY	138	GCTTTGGTCTTCCTTTAATTACATGACGGGGTAAACATTGCTAAAGAGATGAATTA	197		
Db	509	tcttttcggtgcaccgcacatccacaagaatglttccgtctgcgtgcgaatcgaactg	568		
QY	198	GAAGATCACTTTTGAAGAAACATGGGAGCAAAATTTGGTGTCTGAAGTGGCTTTAAACCAAT	257		
Db	569	gaagacaaagttcggaaaaatatggtgtgcgcagatctgcgaagaatgttgcctctaaagcaaac	628		
QY	258	GATATTGCTGGTAGTGAGACGACTACTGCAACAGTTTGTGACAAAGCCATTGTTCATGAA	317		
Db	629	gcagcttcagggcagcgttacccaccactgcgaaccgttactggtctcagatcatcatcgaa	688		
QY	318	GGACTTAAAAAAATGTGACACGACGAGTGTCTAATGCATTGTGTCCTCGAGGACATTGAACA	377		
Db	689	gtctcggaaagctgtctgcgcgcgcgtacgtgaacccgcgtgcgaactgaacgcgtgatacgaataa	748		
QY	378	GCACACGACAAACAGCTTTGAAGCCTTGAAGCCATTGCTCAACGCTGTATCTGGCAAGAA	437		
Db	749	gcggttacccgtcgaattgaaagaactgaaagcgtgttcgatacscatgtctgactctaaa	808		
QY	438	GCTATTGCTGAGGCCCTGCACTATATCAACGCGC---TGAAGAGTTGGAGAGTATATC	494		
Db	809	gcagatgtcgaagttgtgtacatcttcgcgttaaccgcgcgaacaaacccgtatggaataactgac	868		
QY	495	TCAGAACCTATGGACGCTGTGGGCAACGATGTGTGATTACCATGGAAGATATCTCGAGCT	554		

[illegible]

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Db 1949 gaccctgcgaataacgactgacgttgactttaggcgtgctgcgtgatatgt 1297

RESULT 3
US-08-470-260-7
Sequence 7, Application US/08470260
Patent No. 6077706
GENERAL INFORMATION:
APPLICANT: Covacci, Antonello
APPLICANT: Bugnoli, Massimo
APPLICANT: Telford, John
APPLICANT: Macchia, Giovanni
APPLICANT: Rappoli, Rino
TITLE OF INVENTION: Helicobacter Pylori Proteins Useful
TITLE OF INVENTION: for Vaccines and Diagnostics
NUMBER OF SEQUENCES: 7
CORRESPONDENCE ADDRESS:
ADDRESSEE: Chiron Corporation
STREET: 4560 Horton Street
CITY: Emeryville
STATE: California
COUNTRY: USA
ZIP: 94608-2916
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/470,260
FILING DATE:
CLASSIFICATION:
PRIORITY APPLICATION DATA:
APPLICATION NUMBER: US 08/256,848
FILING DATE: 21-OCT-1994
ATTORNEY/AGENT INFORMATION:
NAME: McClung, Barbara G.
REGISTRATION NUMBER: 33,113
REFERENCE/DOCKET NUMBER: 0316, 001
TELECOMMUNICATION INFORMATION:
TELEPHONE: (510) 601-2708
TELEFAX: (510) 655-3542
INFORMATION FOR SEQ ID NO: 7:
SEQUENCE CHARACTERISTICS:
LENGTH: 1838 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
US-08-470-260-7

Query Match 31.8%; Score 528.6; DB 3; Length 1838;
Best Local Similarity 58.9%; Pred. NO.1.7e-146;
Matches 966; Conservative 0; Mismatches 664; Indels 9; Gaps 3.

Db 1949 gaccctgcgaataacgactgacgttgactttaggcgtgctgcgtgatatgt 1297

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Db 296 CCGCTGATGCTGCGCGCGATGCGACGACGACGACCGCGTATGATTAAGCATTTT 355
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Db 336 AAGAGTTTGAAGATATACGCGTGGGCTAACTCTATTAAGTGAAGAGAGCATG 415
Oy 373 AAGAGCAGCAGCAGCAGTGTGAAAGCCTTGAAGCCATTCGACCTATCTGCA 432
Db 416 ATAAAGCTCTGAAGGATCATATATGCTTAAAGCGAGCAAAAAAGTACGGCTA 475
Oy 433 AGGAGCTATTCAGTGCAGTGCATATCATCAGC---TAAAAATGTGAGAGT 489
Db 476 AAGAGAAATCAGCCAGATGCGACATTTCTCAACATCGCATCAATATGCGAAAC 535
Oy 490 ATATCTCAGACCTATGAGAGCGTGGGCAAGAGTGTGATTAACATCGAAGATCT 549
Db 536 TCATGCTGACGCTATGGAAGAAAGTGGGTAAAGACGCGCTGATCACCTTGAGAA 595
Oy 550 GAGGATGGAACAGAACTGAAGTGTGAGGCGATGCAATTTGACCGTGTACTGT 609
Db 596 AGGCAATGAGATGAATGATGTGATGAGAGCGATGCAATTTGATGAGGCTACT 655
Oy 610 CTCATATCATGTGTCAGACATGAAAAATGTTGACAGACCTTGAAGCCATTTATCT 669
Db 656 CCGCTATTTTGTAAACGAGCGTGAAGAAATGACGCTCAATTTGATATGCTTACATCC 715
Oy 670 TAATCAGGATAAAAAGTGTCAAAATCCAGATTTTCCGCTCTTGAGAGAGTTC 729
Db 716 TTTTAAAGGATAAAAATCTCTAGCATAAAGACATTTCTCCCTCTCTGAAAGCA 775
Oy 730 TTAAGCAACCGTCCATCTCATATTTGACAGATGATGATGATGAGCACTTCCAA 789
Db 776 TGAAGAGGCGAAACGCTTTTATCATCGTGAAGACATTTGAGGAGGCTTTAAGA 835
Oy 790 CCGTGTCTGTAACAGATTCGTGTAATTTCAATGTTGCTGCTCAAGGCGAGAT 849
Db 836 CTCATGTGTGAATTAATTAAGAGCGGTGTAATTCGACGCGTTAAAGCTCCAGCT 895
Oy 850 TTGTGATCGTCAAGAGTGTGTAAGTGTGTAAGCATTTGCTGTAAGCTGTGTA 909
Db 896 TTGGGACAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 955
Oy 910 TTACAGAGATCTAGACTTGAATTAAGATGCTAGACAGAGCTTGGACAGGCTG 969
Db 956 TTAGGAGAGATTTGGCTGAGCTAGAAAGCGTGAAGTGAAGTTTAAAGCAAGCTG 1015
Oy 970 CTAAGATTACAGTTGATTAAGATACAGAGTAATTTGTAAGTTGAGAGTTCAGAA 1029
Db 1016 GAGGATTTGATTTGACAAAGACACACAGATCGTAGATGCAAGGCGCATACCGATG 1075
Oy 1030 CTATTTGTAACCTATTCATGATTAATTCGCAATTAAGAACACAACTTCTGACTTG 1089
Db 1076 ATGTTAAAGACAGAGTGGCGAGTCAAAACCCAAATTCGAAAGTACGAAAGCATATG 1135
Oy 1090 ACCGTGAAAACTACAGAGAGTGTGGGCAATTAAGTGTGCTGTGCTGTGCTGTG 1149
Db 1136 ACAAAGAAAAATGCAAGAAAGATGCTAACTCTGTGCGGTGCTGTGATTAAG 1195
Oy 1150 TAGGACTGCAACAGACAGACTTTAAAGAAATGAACCTTGCAATGAGATCTCTAA 1209
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Oy 1210 ATCTACAGCTGACCGCTGAGAGAGTATCTGCTGCTGCTGCTGCTGCTGCTGCT 1269
Db 1256 GCGGAGCTAAAGCGGCTGTAAGAGAGCATGTGATGTGCTGCTGCTGCTGCTGCT 1315
Oy 1270 CGGTTATGAAAAATGACAGCTCTGAGCTTGAGGCGAGATGCTACTAGAGCA 1329
Db 1316 GCGGCGCTCAAAAAGT---GATTTGAATTTGACAGATGTAAGAAAGTGGCTATGAAA 1372
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Db 1373 TCATATGCGCGCCATTAAAGCCCATTTAGCTCAATTCGCTATCAACCGTGTATGATG 1432
Oy 1390 GTCCTGATGATTATGACAAGTGAAGAAAAACAGCCCTCAGAGACAGATTTATGTGCAA 1449
Db 1433 GCGGATGTGTGATTAAGTAAGTAAGTAAGTAAGTAAGTAAGTAAGTAAGTAAGTAAG 1492
Oy 1450 CAGGTGATGCTGATTAATTAAGTAAGTAAGTAAGTAAGTAAGTAAGTAAGTAAGTAAG 1509
Db 1493 ATGCGAATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 1552
Oy 1510 CAGCGCTTCAAAATGACAGCTTCTGTAGCTATGATTAATTTGACAAAGAGAGAGTGTG 1569
Db 1553 TCGCTCTCAAAATGAGCGGTTTCGCTTCAAGCTCTGTTTAAACAGAGAGAGAGAGAGAG 1610
Oy 1570 CTAAATAAACCTGAACGCTAGCCAGCGCCAGCAATGCGAGAGATGATGATGATGATG 1629
Db 1611 -GATGAATTAAGTAAGTAAGTAAGTAAGTAAGTAAGTAAGTAAGTAAGTAAGTAAG 1669
Oy 1630 TGATGGGTGGATGGCGG 1648
Db 1670 GTATGGAGGATGGCGG 1688

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RESULT 4
US-08-471-491-7
Sequence 7, Application US/08471491B
Patent No. 6090611
GENERAL INFORMATION:
APPLICANT: Covacci, Antonello
APPLICANT: Bugnoli, Massimo
APPLICANT: Telford, John
APPLICANT: Macchia, Giovanni
APPLICANT: Rappunli, Rino
TITLE OF INVENTION: Helicobacter Pylori Proteins Useful For Vaccines And
FILE REFERENCE: CHIR004
CURRENT APPLICATION NUMBER: US/08-471.491B
NUMBER OF SEQ ID NOS: 8
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 7
LENGTH: 1838
TYPE: DNA
ORGANISM: Helicobacter pylori
US-08-471-491-7

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Query Match 31.8% Score 528.6; DB 3; Length 1838;
Best Local Similarity 58.9%; Pred. No. 1.7e-146;
Matches 966; Conservative 0; Mismatches 664; Indels 9; Gaps 3;
Oy 13 ATATGGCAAAAGAAATTAATTTTACAGAGATGCGGCTGCTCCATGCTGCGGAGTTG 72
Db 56 aaatgcaaaagaaatcaaatlltcagatagtcggaacaccltlatlgaagcgta 115
Oy 73 ATATGTAGCAGATACCGTCAAGTAAGTACGTTGCTCTAAAGGCGCAATTTTCTT 132
Db 116 ggcacatccatgagcgcgtcaaaagtaacatgagcgaagcgaagatgatalatcc 175
Oy 133 AAAAGCTTTGTTCTTCCCTTAATTAATGAGGAGTAAACCATTTGCTAAAGATG 192
Db 176 aaaaagctatgagcgtcccaagatcaccaaaagcgcgtgagcgtgcaaaagatg 235
Oy 193 AATTGAAGATCATTTGAAACATGAGAGCAAAATTTGTCGATGAGTGGCTTTAA 252
Db 236 aatlaagtlgcccagtagcaacatgagcgtcccaactcgtlaaagaagtagagcaaaa 295
Oy 253 CCAATGATATTTGCTGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 312
Db 296 cgcgtgagtcgcgcgcgcgcgcgcgcgcgcgcgcgcgcgcgcgcgcgcgcgcgcgcgcgc 355
Oy 313 ATGAAGAGCTAAAAATGTGACAGAGGTGATATCAATTTGATCCGTCGAGGAGATG 372

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OY 373 AAACGAAAGAGCAGCAGCTGTGAGACCTTGAAGCCATTGCTCAACCTGTATCTGGCA 432
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OY 433 AGGAAGTATGTCTCAGCTGCGTCAGTATCATCAGCTC--TGAAAAAGTTGAGAGT 489
Db 476 aagaagaatacaccgaagtcgacacattctcgcaactccgcatacaatatacggaaac 535
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Db 536 tcatcgtcgaagctataagaaaagtcgaaagcgcgtgcatcaccttgaggaagcta 595
OY 550 GAGCTATGAAACAGACTTGAAGTGTGAAGCATGATTTGACCTGTGTACTCTGT 609
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OY 610 CTCAATACATGCTCAGACAGCAATGAAATGCTTGCAGACTTGAAGCCATTATCT 669
Db 656 cccctattttgttaagcgaacgctgagaaatgacgcgcacattgataatgattacatcc 715
OY 670 TAAACAGCGATTAATAAGTGTAAATCAAGACATTTTGCCTACTTGAAGAGTTC 729
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OY 730 TTAACCAACCGCTCATCTACTTATTTGAGATGATGATGATGATGATGATGATGATGAT 789
Db 776 tgaagagggcacaacgcgtttaaatacgcgttgaaagcatttgaggcgagaaacttaaga 835
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OY 970 CTAAATTCACATGATTAATGATAGTACAGTAAATTTGATGATGATGATGATGATGATGAT 1029
Db 1016 gaagagcttgatgacaaagacacacacgcgttgatgagtcgaagcgaagcgaagcga 1075
OY 1030 CTATTCCTAACCGTATTTGCACTGATTAATGCGAATTAAGAAACAATCTCTGACTTG 1089
Db 1076 agcttaagacagagtcgcgacagatacaaaccccaatcgaagtcgacaaagcgaatctg 1135
OY 1090 ACCGTGAAACCTACAGAACGTTTGCGAATTAATGCTGCTGCTGCTGCTGCTGCTGCTG 1149
Db 1136 acaaaagaaaatctcgaagaaagatctgtaactctcgcgcgttgctgctgctgctgctg 1195
OY 1150 TAGGAGCTCAACAGAGACGCTTAAAGAAATGAATTTGGCTTGAAGATCTCTTAA 1209
Db 1196 tgggagcgcgag 1255
OY 1210 ATGCTACACGTCAGCCGTTGAAGAGTATGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1269
Db 1256 ggcgcacctaaagcgcgttgagaaagcattgatttgctgctgctgctgctgctgctgct 1315
OY 1270 CGGTATTTGAAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAG 1329
Db 1316 ggc 1372
OY 1330 TTGCTCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1389
Db 1373 tcatcagtcgc 1432
OY 1390 GCTCTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 1449
Db 1433 ggcgttgctgagtgagtgagtgagtgagtgagtgagtgagtgagtgagtgagtgagtgag 1492

OY 1450 CAGTGAAGTGGTGTGATGATTAATAACAGAAATCATTTGACCTGTCAAAAGTACAGCAT 1509
Db 1493 atggaagatgagtgagataatgataagaaagcattatgacccctaaagatgaaagga 1552
OY 1510 CAGCGCTTCAAAATGACGCTTCTGTAGCTAGTCTTATTTTGAACAGAGAGCTTGTG 1569
Db 1553 tgcctctacaaatgagcgttgcgttctaaagcctgctttaaaccagagaagccacgct- 1610
OY 1570 CTAATTAACCTGAACACGCTACGACCGACGACGACGACGACGACGACGACGACGAC 1629
Db 1611 -gactgaatcaagaagaagaagaagaagaagaagaagaagaagaagaagaagaagaaga 1669
OY 1630 TGATGGTGGATGGCGCG 1648
Db 1670 gtaagagagcagtcgagcgcg 1688

RESULT 5
US-08-466-662-7
Sequence 7, Application US/08466662B
Patent No. 6130059
GENERAL INFORMATION:
APPLICANT: Covacci, Antonello
APPLICANT: Bugnoli, Massimo
APPLICANT: Telford, John
APPLICANT: Macchia, Giovanni
APPLICANT: Rappuoli, Rino
TITLE OF INVENTION: Helicobacter Pylori Proteins Useful For Vaccines And
FILE REFERENCE: CHIR0057
CURRENT APPLICATION NUMBER: US/08/466,662B
NUMBER OF SEQ ID NOS: 8
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 7
LENGTH: 1838
TYPE: DNA
ORGANISM: Helicobacter pylori
US-08-466-662-7

Query Match 31.8%; Score 528.6; DB 3; Length 1838;
Best Local Similarity 58.9%; Pred. No. 1.7e-146;
Matches 966; Conservative 0; Mismatches 664; Indels 9; Gaps 3;

OY 13 ATATGCAAAAGAAATCAATTTTACAGACATGCCGCTGCTGCCATGCTGCCGAGATTG 72
Db 56 aaatgcaaaagaaatacaaatcttcagatagtcgagaaacatttatttgaagcgctga 115
OY 73 ATATGTACAGATACCGTCAAGTAAAGTAAAGTAAAGTAAAGTAAAGTAAAGTAAAGTAAAG 132
Db 116 ggaactcacaagcgcgttcaagtaaacatgagtcgaagtcgaagtcgaagtcgaagtcga 175
OY 133 AAAAAGCTTTGCTTCCCTTAATTAATGACGGGCTAACCATTTGCTAAAGAGATCG 192
Db 176 aaaaaagctatgagcgcctcaagcatcaacaaagacgcgcgcgcgcgcgcgcgcgcgcgcgc 235
OY 193 AATTGAAGATCATTTTGAAGATGAGAGCAAAATTTGCTGTAAGAGCTTGTAA 252
Db 236 aattgaattgcccagtcgatacatgagcgcgcgcgcgcgcgcgcgcgcgcgcgcgcgcgcgc 295
OY 253 CCATATATTTGCTGATGAGAGCTACTGCAACGTTTGTGACACAAAGCATTTGTTTC 312
Db 296 ccgctgagtcgc 355
OY 313 ATGAAGAGCTAAATAATGACAGAGTGTAAATCAATTTGATCTGTCGAGGACATG 372
Db 356 aagaagcttgaggaatatacagcgttgggttaaccctatgaaagtcgaagcgaagcagtcg 415
OY 373 AAACAGACAGCAGCAGCTTGAAGCTTGAAGCCATTTGCTCAAGCTGTATGTGCA 432
Db 416 ataaagcttgagtgagtgagtgagtgagtgagtgagtgagtgagtgagtgagtgagtgag 475

OY	1510	CACGGCTTCAAAATGACACTCTCTGACTACTGTCCTTATTTTGGACACAGAAAGCAGTTGTG	1566
Db	1553	tcgcctacaanaatgcgttttcggtttccaagctcgccttctaacaacgaagacacgcgt--	1610
OY	1570	CTATTAAACTCTGAACCACTACTACGCGACAGCGCCACAGCAATGCGACAGAGTATGATCCAGAA	1628
Db	1611	-gcataaatacaagaagaaanaagagcactccgcgaatccctgatalatggtgcatgtagcgc	1668
OY	1630	TGATGGGTGGAGATGGCGCG	1648
Db	1670	gtatggaagagcatgggcgcg	1686

02-270 / 022 20

Query Match	29.98;	Score 496.6;	DB 2;	Length 2284;
Best Local Similarity	58.18;	Pred. NO. 5.6e-137;		
Matches 953; Conservative	0;	Mismatches 674;	Indels 12;	Gaps 4;

QY 13 ATATGCAAAATCAATTTTACGACATGCGCTGCTCCATGTGTGCGGAGTTG 72
DB 504 AATATGCAAAATCAATTTTACGACATGCGCTGCTCCATGTGTGCGGAGTTG 563
QY 73 ATATGTTACAGATACCGTCAAAAGTGAACGCTGCTCAAAAGGCGCAATGTTGTTG 132
DB 564 GACACATCCATGACCTGTCAAAAGTGAACGCTGCTCAAAAGGCGCAATGTTGTTG 623
QY 133 AAAAAGCTTTGCTGCTCAAAAGTGAACGCTGCTCAAAAGGCGCAATGTTGTTG 192
DB 624 AAAAAGCTTTGCTGCTCAAAAGTGAACGCTGCTCAAAAGGCGCAATGTTGTTG 683
QY 193 AATTAAGATCAATTTTGAACGCTGCTCAAAAGTGAACGCTGCTCAAAAGGCGCAAT 252
DB 684 AATTAAGTTCGCTGCTCAAAAGTGAACGCTGCTCAAAAGGCGCAATGTTGTTG 743
QY 253 CCAATGATATGCTGCTGCTCAAAAGTGAACGCTGCTCAAAAGGCGCAATGTTGTTG 312
DB 744 CCGCTGATCCGCTGCTGCTCAAAAGTGAACGCTGCTCAAAAGGCGCAATGTTGTTG 803
QY 313 ATGAAGATCAAAATGCTGACAGAGTGTCAATCAATGTTGTTGCTGAGGCAATG 372
DB 804 AAGAGGCTTTGAGGAAATTCAGGCTGCTGAGGCTTAAAGGCTTAAAGGCTTAAAGG 863
QY 373 AAACAGCAACAGCAACAGCTTGTGAAGCTTGAAGCTTGTCAACCTGATCTGCA 432
DB 864 ATTAAGCGCTGTAAGCCATCTTAATGAGCTTAAAGGCTTAAAGGCTTAAAGGCTTAAAG 923
QY 433 AGGAAGCTATGCTGAGTGTGCTGAGTATCATACGCTC--TGAAAAAGTTGAGAGT 489
DB 924 AAGAGAAATCAACCAAGTGTGAGGCTGCTGAGGCTTAAAGGCTTAAAGGCTTAAAGG 983
QY 490 ATATCTCAAGATGATGAGGCTGCTGAGGCTTAAAGGCTTAAAGGCTTAAAGGCTTAAAG 549
DB 984 TCATGCTGATGCTGATGAGGCTTAAAGGCTTAAAGGCTTAAAGGCTTAAAGGCTTAAAG 1043
QY 550 GAGGATGAGAAACAGAGCTTGAAGGCTTGAAGGCTTGAAGGCTTGAAGGCTTGAAGG 609
DB 1044 AGGGATGAGAAATGAGTGTGATGCTGATGAGGCTTGAAGGCTTGAAGGCTTGAAGG 1103
QY 610 CTCATATACATGCTGACAGACATGAAAAATGTTGAGGCTTGAAGGCTTGAAGGCTTGAAG 669
DB 1104 CCCCTTACTTTGTAACCAAGCTGAGAAAAATGACCGCTCAATGATGATGATGATGATGATG 1163
QY 670 TAAATGAGATTAATTAATGCTCAAAATGCTCAAAATGCTCAAAATGCTCAAAATGCTCAAA 729
DB 1164 TTTTAAAGGATTAATTAATGCTCAAAATGCTCAAAATGCTCAAAATGCTCAAAATGCTCAAA 1223
QY 730 TTAATACCAACCGCTCATCTATCTATTTGATGATGATGATGATGATGATGATGATGATG 789
DB 1224 TGAAGAGGAGCAACCGCTTTTAATCATGCTGAGAAAGATGAGGAGGAGCTTTAAACGA 1283
QY 790 CCCCTGTTGTAACAAATGCTGAGGCTTGAAGGCTTGAAGGCTTGAAGGCTTGAAGGCTTGAAG 849
DB 1284 CTCATGATGATTAATTAATGAGGCTTGAAGGCTTGAAGGCTTGAAGGCTTGAAGGCTTGAAG 1343
QY 850 TTGCTGATGCTGTAAGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 909
DB 1344 TTGGGAGAGGAGAAAGAAATCTCAAAAGCATGCTGTTTAAACGGGAGGATGATGATGATGATG 1403
QY 910 TTAAGAGGATCTGAGCTGATTAATTAAGATGATGATGATGATGATGATGATGATGATGATG 969
DB 1404 TTAAGAGGATCTGAGCTGATTAATTAAGATGATGATGATGATGATGATGATGATGATGATG 1460
QY 970 CTAAGATTAAGTGAATGAATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 1029
DB 1461 GGAAGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 1520
QY 1030 CTATTTGTAACCGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 1089
DB 1521 AGCTGAAGAGAGAGTGTGCGCAATCAAAATGCTGATGATGATGATGATGATGATGATGATGATG 1580
QY 1090 ACCGTGAAAAATCAAGAACTTTGGCGAAATTAAGCTGTGTGATGATGATGATGATGATGATG 1149

DB 1581 ACAAGAAAAATTCAGAAAGATGCGCAAACTCTGCGGCTGTGCTGTGATTAAG 1640
QY 1150 TAGGAGCTCAACAGACACCTTTAAAGAAATGAACCTTGTGATGAGAGTCTGTA 1209
DB 1641 TGAGGCTGCTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 1700
QY 1210 ATCTACAGTCAACCGCTTGAAGAGGATGATGATGATGATGATGATGATGATGATGATGATG 1269
DB 1701 GCGGAGCTTAAGCGGCTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 1760
QY 1270 CGGTGTAAGAAATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 1329
DB 1761 GCGGCGGCGCAAAAGT---GATTTGATTTTACAGATGATGATGATGATGATGATGATGATG 1817
QY 1330 TTGTGCTGCTGCTGCTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 1389
DB 1818 TCATCATGCGCGCTTAAAGCCCATTAAGCTCAATGCTATCATGCTGCTGATGATGATGATG 1877
QY 1390 GCTCGTATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 1449
DB 1878 GCGGCTGCTGCTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 1937
QY 1450 CAGGTGATGCTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 1509
DB 1938 ATGCGAGTATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 1997
QY 1510 CAGCGCTTCAAAATGAGCTTCTGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 1569
DB 1998 TCGCTTTCAAAATGAGGCTTGTGCTGATGATGATGATGATGATGATGATGATGATGATGATG 2055
QY 1570 CTATTAACCTGAAACAGCTGACCGCAGCGCCAGCAATGCTGATGATGATGATGATGATGATG 1629
DB 2056 -GCATGAATCAAGAAAGAAAGCGCCCGCAGCAATGCTGATGATGATGATGATGATGATGATG 2114
QY 1630 TGATGCTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 1648
DB 2115 GAATGAGAGCATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 2133

RESULT 7
US-08-432-697-28
Sequence 28, Application US/08432697
Patent No. 6248330
GENERAL INFORMATION:
APPLICANT: Labigne, Agnes
APPLICANT: Sauerbaum, Sebastien
APPLICANT: Ferrero, Richard L.
APPLICANT: Thibierge, Jean-Michel
TITLE OF INVENTION: IMMUNOGENIC COMPOSITIONS AGAINST
TITLE OF INVENTION: HELICOBACTER INFECTION, POLYPEPTIDES FOR USE IN THE
TITLE OF INVENTION: COMPOSITIONS, AND NUCLEIC ACID SEQUENCES ENCODING SAID
TITLE OF INVENTION: POLYPEPTIDES
NUMBER OF SEQUENCES: 44
CORRESPONDENCE ADDRESS:
ADDRESSEE: Flunegan, Henderson, Farabow, Garrett &
ADDRESS: 1300 I Street, N.W.
CITY: Washington
STATE: D.C.
COUNTRY: USA
ZIP: 20005-3315
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/432,697
FILING DATE: 02-MAY-1995
CLASSIFICATION: 424
ATTORNEY/AGENT INFORMATION:
NAME: Meyers, Kenneth J.

Query Match	29.98;	Score 496.6;	DB 4;	Length 2284;
Best Local Similarity	58.18;	Pred. No. 5.6e-137;		
Matches 953; Conservative	0;	Mismatches 674;	Indels 12;	Gaps 4;

Db 1284 CTCCTGATGTAATTAATTAAGAGGGCGTGTGAATATGCAAGCGGTTAAAGCTCCAGGCT 1343

QY 850 TTGGGATCGTCGTAAAGCTATGCTTGAAGACATTTGCTATCTTGACAGGTGTACAGTGA 909

Db 1344 TTGGGGACAGAGAAAGAAATGCTCTAAAGACATGCTGTTTAAACGGCGGTCAGTGA 1403

QY 910 TTACAGAGATCTAGACCTTGAATTAAGATGCTACAAATGACACGCCCTTGGACAGCTG 969

Db 1404 TTAGCGAAGAAATTTGGGCTGTGATGCTGAAACAGCTGAAGTG---GACTTTTATGGCAAG 1460

QY 970 CTAAATATACAGTTGATTAAGATAGACACAGTAATGTTGAAGGTTGAGAAAGTTCAAG 1029

Db 1461 CGAAGATGTGATATGACAAAGACACACCATCATGTGATGAGCAAGGCCATAGCCATG 1520

QY 1030 CTATGTGTAACCGTATTTGCACTGATTTAAATGCGCAATTGAAACACAACTTCTGACTTGG 1089

Db 1521 ACGTCAAGACAGAGGTGGCAAAATCAAAACCCAAATTTGCAAGCACACAAAGGATTAAG 1580

QY 1090 ACCGTGAAAAATACAAAGAAAGCTTTGGCGCAATTAAGTGTGGTGTAGTGTATATCAAG 1149

Db 1581 ACAAGAGAAAAATTTGCAAGAAAGTTGGCCAACTCTCTGGGGGGTGTGATTAATGAAG 1640

QY 1150 TAGAGCTCCACACAGACAGCTTTAAAAAGAAATGAATTCGATTTGAGAGATGCTCTGA 1209

Db 1641 TGGGGCTGGGATGTAAGTGAAGTGAATTAAGAAAGAAAAAGACCGGGTGTATGACGGTTGA 1700

QY 1210 ATGCTACAGCTGCACGCCGTTGAAGAAGTATGTTGCTGTGTGTGAACAGCACTTATTA 1269

Db 1701 GCGGACCTAAAGCGCGGTTGAAGAGCATTTGATTTGGGGCGGGTGTGCGCTCATATTC 1760

QY 1270 CGGTTATGAAAAAGTAGACAGCTCTTGAAGTGAAGCGATGATGCTACAGCACTAACA 1329

Db 1761 GCGGGGCGCCAAAAAGT---GCATTTGATTTACACGATGATGAAGAAAGTGGGCTATGAAA 1817

QY 1330 TTGGCTCTGCTGTCTAGAAAGAGCGCTGTACGTCAAATTTGTTAAATGCTGGCTACAG 1389

Db 1818 TCATCATACGCCCGCATTTAAAGCCCATTAAGCTCAAAATGCTATCAAAATGCGGTTATGATG 1877

QY 1380 GCTCCGTAGTTATTGACAAAGTTGAAGAAACAGCCCTGCAGAGACAGATTAAATGCTGCA 1449

Db 1878 GCGGTGTGGTGCAGATGAAGTAGAAAAACAGAAAGGCAATTTGGTTTAACTGCTACCA 1937

QY 1450 CAGGTGATGGGTGATGATGATTAAGACAGAAATCAATTCACCTGTCACAAAGTAACAGAT 1509

Db 1938 ATGGCAAGTATGTGGACATGTTAAAGAGGCAATATTGACCCCTTAAAGTAGAAAGCA 1997

QY 1510 CACGCGCTCAAAATGACAGCTTCTGTAGTACTTATTTGACACAGACAGCATGTTGTG 1569

Db 1998 TCGCTTTACAAATGCGGTTTCGTTTCACCCGTGCTTTAAACACAGAGCAACCGT-- 2055

QY 1570 CTAAATAACCTGACACAGCTACGCCAGCGCAGCAATGACAGAGGTATGATGCAGAA 1629

Db 2056 -GCATTAATTAACAAAGAAAGAAACCGGCGCCAGCAATGCTGATATGAGGTGCAATGGGCG 2114

QY 1630 TGATGGTGGATGGGCGG 1648

Db 2115 GAATGGAGGCAATGGGCGG 2133

RESULT 8

US-08-466-248-28

Sequence 28, Application US/08466248

Patent No. 6258359

GENERAL INFORMATION:

APPLICANT: Labigne, Agnes

APPLICANT: Sauerbaum, Sebastien

APPLICANT: Perreiro, Richard L.

APPLICANT: Thibierge, Jean-Michel

TITLE OF INVENTION: IMMUNOGENIC COMPOSITIONS AGAINST

TITLE OF INVENTION: HELICOBACTER INFECTION, POLYPEPTIDES FOR USE IN THE

TITLE OF INVENTION: COMPOSITIONS, AND NUCLEIC ACID SEQUENCES ENCODING SAID

NUMBER OF SEQUENCES: 44

CORRESPONDENCE ADDRESS:
ADDRESSEE: Flinnegan, Henderson, Farbow, Garrett &
ADDRESS: Dunnet
STREET: 1300 I Street, N.W.
CITY: Washington
STATE: D.C.
COUNTRY: USA
ZIP: 20005-3315
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/466,248
FILING DATE: 06-JUN-1995
CLASSIFICATION: 435
PRIORITY APPLICATION DATA:
APPLICATION NUMBER: US 08/447,177
FILING DATE: 19-MAY-1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/432,697
FILING DATE: 02-MAY-1995
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Meyers, Kenneth J.
REGISTRATION NUMBER: 25,146
REFERENCE/DOCKET NUMBER: 03495.0137-02000
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202) 408-4400
TELEFAX: (202) 408-4400
INFORMATION FOR SEQ ID NO: 28:
SEQUENCE CHARACTERISTICS:
LENGTH: 2284 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
US-08-466-248-28

Query Match 29.9%; Score 496.6; DB 4; Length 2284;
Best Local Similarity 58.1%; Pred. No. 5.6e-137;
Matches 953; Conservative 0; Mismatches 674; Indels 12; Gaps 4;

QY 13 ATATGCAAAAGAAATCAATTTTCAGCAGATGCGGCTGCTGCCATGTGCGCGAGTTG 72
DB 504 AATTTGCAAAAGAAATCAATTTTCAGCAGATGCGGCAAGAAACCTTTTATTTGAAGCGTTAA 563
QY 73 ATATGTTACAGATACCGTCAAAAGTAAAGCTGTGCTTAAAGGCGCAATGTGTCTTG 132
DB 564 GACACTCATGACCTGTCAAAATCAATGATGAGGCGCAAGAGCGAAGCGTGTGATCC 623
QY 133 AAAAAGCTTTGGTCTCCCTTAATTAATGACGGGTAAACCAATTCCTAAAGATCG 192
DB 624 AAAAAGCTTTGGTCTCCCTTAATTAATGACGGGTAAACCAATTCCTAAAGATCG 683
QY 193 AATTAGAGATCATTTTGAAGAAATGAGGAGCAAAATTTGCTGCTGAAGGCTTCTTAA 252
DB 684 AATTAGATTTGCCCCCTGCTCAATGAGGCGCTCAGCTCTTAAAGAAATGCGAGCAAAA 743
QY 253 CCAATGATTTTGGCTGTGAGGAGCGACTACTGCAACATTTTGAACAGCAATTTGTT 312
DB 744 CCGCTATTCGCGCGCATGAGCGACGACGACGACGACGCTGTGCTTATGACATTTTGA 803
QY 313 ATGAAGACTAAAAATGACAGCAGAGTCTAATCAATTTGCTGCTGCGTGCAGATG 372
DB 804 AAGAGGCTTTGAGAAATATCAGGCTGGGCTTAACCTATTTGAAGTGAAGAGGAGCATG 863
QY 373 AAAGACGACAGCAGACAGCTGTGAAGCTTGAAGCAATTTGCTGCAACCTTATCTGCA 432
DB 864 ATTAAGCGCTGTAAGCGATCATTTAATGAGCTTAAAAAAGCAGCAAAAGTGGCGGTA 923

QY 433 AGAAGCTATTTGCTCAGTCCGCTGACATATCAGCTC---TGAAAAAGTTGAGAGT 489
DB 924 AAGAAAGAAATCACCAGTAGAGACCAATTTCTGCAAACTCCGATCAACAATATCGGAAAC 983
QY 490 ATATCAGAGCTATGAGCGGTGTGGGCAACGATGTGATTAACATTCGAAGAATCTC 549
DB 984 TCATCGCTGACGCTTATGAAAAAGTGGGTAAAGCGCGATCACCGCTGAAGAACTA 1043
QY 550 GAGTATGAAACAGAACTTGAAGTGTGAAGGCAATGCAATTTGACCGTGTACCTGT 609
DB 1044 AGGCAATGGAAGATGAATAGATGCTAGAGGCAATGCAATTTGATGAGAGCTACCT 1103
QY 610 CTCATATCATGTGTCACAGCAATGAAAAATGTTGTCAGACCTGCAAAACCATTTATCT 669
DB 1104 CCGCTTACTTTGTAACCAACGCTGAGAAATGACCCCTCAATTTGATTAACCTTACCTC 1163
QY 670 TAATCAGGATAAAAAGTGTCAAAATCCAGACATTTTGCCACTTGTAGGAGATTC 729
DB 1164 TTTTAAGGATAAAAAATCTCTAGCAAGACATTTCTCCGCTACTAGAAAAACA 1223
QY 730 TTAACCAACCGTCCATTTACTCATTTATGCAATGATGATGTGATGAGCACTTCCAA 789
DB 1224 TGAAGAGGCAACCGCTTTTATCATCGCTGAAGACATTTAGGCGCAACTTTAACGA 1283
QY 790 CCGTGTCTTGAACAAGATTTGCTGATCTTCAATGTGCTGTCTCAAGCGCCAGAT 849
DB 1284 CTCTAGTGTGATTAATTAAGAGCGCTGTGTAATTCGACCGGCTTAAACCTCCAGGCT 1343
QY 850 TTGATATGCTGTAAAGCTATGCTGAAGACATTTCTATCTGTGACAGTGTGACATGA 909
DB 1344 TTGGGACAGAGAAAGAAATGCTCAAGACATTCGCTTTTAAACCGCGCTAAGTCA 1403
QY 910 TTACAGAGATAGAGCTTGAATTAATAAATCTTCAATGACACCGCTTGGACAGCTG 969
DB 1404 TTACGAGAAATTTGGCTTGAAGCTAGAAAAACGTTGAAGT---GAGTTTGAAGCAAG 1460
QY 970 CTAAAGTTACAGTATTAAGATAGCACAGTAAATTTGTAAGTTGCAAGATTCAGAAAG 1029
DB 1461 CGAAGATGTGATGACAAAGACAAACACGATCTGATGAGCAAGCGCATAGCCAG 1520
QY 1030 CTATGCTTACCGCTTTGCACTGATTAATGCAATTTGAAGAAACAACTTGTGACTTTG 1089
DB 1521 ACCTCAAAACAGATCCGCAATTAACCAATTTGCAAGCAGCAAGCAATTAAG 1580
QY 1090 ACCGTGAAAACTACAGAAACGTTTGGCAATTTAGCTGTGTGATGCTTATCAAG 1149
DB 1581 ACAAGAAAAATTTGCAAGAAAGATTTGGCCAACTCTGGGCGGTGTGATTAAG 1640
QY 1150 TAGGAGCTCCAGAGAGACGCTTTAAAGAAATGAACCTTGCATTTGAGATGCTTAA 1209
DB 1641 TGGGCGCTGCGAGTGAAGTGAAGTGAAGAAAAAGACCGGTGATGAGCGCTTGA 1700
QY 1210 ATGCTACAGCTCAGCCGTTGAAGAGATGCTGTGCTGTGTGTAAGCAAGCACTTATTA 1269
DB 1701 GCGGCACTAAAGCGCGGTTGAAGAGCAATTTGATTTGGGCGGTGCGCCCTCATTC 1760
QY 1270 CGGTTATTTGAAGAAAGTGAAGAGCTGTGAGCTGAGAGGCGATGATGATGACAGCA 1329
DB 1761 GCGGCGCCCAAAAAGT---GCATTTGAATTTACAGATGATGAAAAAGTGGCTATGAA 1817
QY 1330 TTGTGCTGTGCTCTGAGAGAGCTGTAGCTCAATTTGCTTAAATGCTGGGTAGGAAG 1389
DB 1818 TCATCATGTGCGCCCATTAAGCCCATTTAGCTCAATGCTCAATGCGCGTTAAGATG 1877
QY 1390 GCTCGTAGTATTGACAAGTGAAGAAACAGCCCTGACAGAAAGAGATTTTAAGTGCAG 1449
DB 1878 GCGGTGTGTGTGATGAAGAGTGAAGAAACAGAGGCGCATTTGGTTTAAAGCTAGCA 1937
QY 1450 CAGGTGATGGGTGATATGATTAATAACAGCAATCATTTGACCTGTCAAGATTAACGAT 1509
DB 1938 ATGCGAAGTATGTGAGCATGTTTAAAGAGGCAATTAATGACCCCTTAAAGTGAAGGA 1997

Query Match	Similarity	27.6%	Score 458.6	DB 4	Length 4403765
Best Local Similarity	55.88	Prod. No. 6,4e-124			
Matches 875	Conservative	0	Mismatches 694	Indels	Gaps
QY 15	ATGGCAAAAGAAATCAAAATTTTCAGCAGATGGCGGTCTGCTCCATGTGGCGCGAGTTGAT	74			
Db 530048	atggcaaaagaaacatttgctgctacgagaagagcgccctcgcgctcgaggggggttgtaac	530107			
QY 75	ATGTTCACAGATACCGTCAACAGTAACGCTGGTCTCTTAAGGGCGCAATTTGTTCTTGAA	134			
Db 530108	gacctcgccgagatgcgtaaaagtgagacatttggcccccaaggccgcaaaagctgctctgaa	530167			
QY 135	AAAGCTTTTGGTGTCTCCCTTAATTAATATAGCGGGTATACATTTGCTTAAGAAATGGA	194			
Db 530168	aagaagtgagggtgtgccccacgatacccaagaaatggatgtgtccatcgcaaaagaaatcga	530227			
QY 195	TTAGAAGATCATTTTGA AAAACATGGGACCAAAATTTGTTGTCTGAAGTGGCTTCAAAAC	254			
Db 530228	ctggagatctccgttcgagaaagatcggcgccgagctgtgtaaaagatgtacgaagaagacc	530287			
QY 255	AATGATATTTGCTGTGATGSGAGCATCTCACTCAACAGTTTATGACCAAGCATTTGCAT	314			
Db 530288	gatggagctcgccggttgaacgacacacgacgccccgctgtgccccagggcttggctgcg	530347			
QY 315	GAGAGCAATMAAAATATGACACAGAGTCTTAATCAATTAATGGTATCCGTGAGCGATTGAA	374			
Db 530348	gagggccctgcgcaacgtcgccggcgccgaacccgctcggtctcaaaacggagatcggaa	530407			
QY 375	ACAGCAACAGCAACAGCTGTGAACCTTGAAAGCCATTGCTCAACCTGTAATCTGCACAG	434			
Db 530408	aagggccgtggagaagatgtcccgagacccctgtctcaaggcgccaaaggaatgttcgaaaca	530467			
QY 435	GAAAGTATGTGCTAGGCTGCGTCAAGTATCATCAAGCTCTGAAAAAGTTGAGAGTATAC	494			

[illegible]


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.OY 1515 CTTCAAAAGCAGCTTCTGTAGTACTTATTTTGACACAGAGAGAGTGTGCTAAT 1574
Db 1501 CTGAGAGAGCGGGCTTCATCGCGGCTCTTCTTCACACAGAGCGCGCTGTCGCCAG 1560
.OY 1575 AATCGTGAACACAGCTACGCCAGCGCCAGCAATGCCAGAGCT 1616
Db 1561 AAGCCGAGAGAGCGCTCCGACCCGCGGCGAGCCGACCGAGT 1602

RESULT 12
US-08-997-362-159
; Sequence 159, Application US/08997362
; Patent No. 5985287
GENERAL INFORMATION:
APPLICANT: Tan, Paul
APPLICANT: Yamana, Jun
APPLICANT: Visser, Elizabeth
APPLICANT: Skinner, Margot
APPLICANT: Scott, Linda
APPLICANT: Prestidge, Ross
TITLE OF INVENTION: COMPOUNDS AND METHODS FOR
NUMBER OF SEQUENCES: 194
CORRESPONDENCE ADDRESS:
ADDRESSEE: Law Offices of Ann W. Spekman
STREET: 2601 Elliott Avenue, Suite 4185
CITY: Seattle
STATE: WA
COUNTRY: USA
ZIP: 98121
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FastSeq for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/997,362
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: U.S. Patent Application No. 5985287 08/873,970
FILING DATE: June 12, 1997
APPLICATION NUMBER: U.S. Patent Application No. 5985287 08/705,347
FILING DATE: August 29, 1996
ATTORNEY/AGENT INFORMATION:
NAME: Sleath, Janet
REGISTRATION NUMBER: 37,007
REFERENCE/DOCKET NUMBER: 11000.1002c2
TELECOMMUNICATION INFORMATION:
TELEPHONE: 206-269-0565
TELEFAX: 206-269-0563
TELEX:
INFORMATION FOR SEQ ID NO: 159:
SEQUENCE CHARACTERISTICS:
LENGTH: 1626 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
US-08-997-362-159

Query Match 26.9%; Score 446.8; DB 2; Length 1626;
Best Local Similarity 54.9%; Pred. No. 2,5e-122;
Matches 880; Conservative 0; Mismatches 722; Indels 0; Gaps 0;

.OY 15 ATGCGAAAGAAATCAATTTTCAGAGATCGGCTGCTCCATGTGGCGGAGTTGAT 74
Db 1 ATGCGCAAGACAATATTCGATGACGAGAGCGCCGCGTGGCTCGAGGGGGGCGCTCAC 60
.OY 75 ATGTGAGAGATACCGTCAAGAAAGCGTTGGCTCTAAGGGCGAAAGTGTCTTGGAA 134
Db 61 GCCCTCGAGAGCGCCCTTAAGAGTGACGTTGGGCGCCGAAAGGATGGCAACGTCGTGGAG 120

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RESULT 13
 US-09-09-855-159
 Sequence 159, Application US/09095855
 Patent No. 6160093
 GENERAL INFORMATION:
 APPLICANT: Tao, Paul
 APPLICANT: Visser, Elizabeth
 APPLICANT: Skinner, Margot
 APPLICANT: Prestidge, Ross
 TITLE OF INVENTION: Compounds and Methods for
 TITLE OF INVENTION: Treatment and Diagnosis of
 NUMBER OF SEQUENCES: 208
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Law Offices of Ann W. Speckman
 STREET: 2601 Elliott Avenue, Suite 4185
 CITY: Seattle
 STATE: WA
 COUNTRY: USA
 ZIP: 98121
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Diskette
 COMPUTER: IBM Compatible
 OPERATING SYSTEM: DOS
 SOFTWARE: FastSeq for Windows Version 2.0
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/09/095,855
 FILING DATE:
 CLASSIFICATION:
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: 08/705,347
 FILING DATE: 29-AUG-1996
 APPLICATION NUMBER: 08/873,970
 FILING DATE: 12-JUN-1997
 APPLICATION NUMBER: 08/997,362
 FILING DATE: 23-DEC-1997
 ATTORNEY/AGENT INFORMATION:
 NAME: Sleath, Janet
 REGISTRATION NUMBER: 37,007
 REFERENCE/DOCKET NUMBER: 11000.1002c3
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: 206-269-0565
 TELEFAX: 206-269-0563
 TELEX:
 INFORMATION FOR SEQ ID NO: 159:

Query Match	26.98;	Score 446.6;	DB 4;	Length 1626;
Best Local Similarity	54.98;	Pred. No. 2.5e-122;		
Matches 880;	Conservative 0;	Mismatches 722;	Indels 0;	Gaps 0;

QY	15	ATGGCAAAAGAAATCAAAATTTTACAGAGATGGCGCTCTCCCATGATGGCGGGAGATTGAT	74
QY	1	ATGGCCAAACAAATTTGGGTATGACGAAAGGCCGCCGCGTGGCTTGACAGGGGGCCCTCAC	60
QY	75	ATGTATGACGATACCCCTCAAAAGTAAAGCCTTGCTCTTAAAGGCGCAATGTGTCTTTGAA	13
Db	61	GCCCTGGCAGAGCCGGTAAAGGTGAGATTTGGGCCCGAAGAGGTGGCAAGCTGTGTGGAG	120
QY	135	AAAGCTTTGGTGTCTCCCTTAATTAATATACAGGGGTAAACATTGCTTAAAGAGATCGAA	19
Db	121	AAAGATGTGGGGGGCCCCCAGATACCAACAGATGTGTGCATGTGCCAAGAGATCGAG	180
QY	195	TTGAAAGTCAATTTTGAACATCAGGAGACAAATTTGTTGTCTGAAGTGGCTTTAAACC	25
Db	181	CTGAGAGACCCGTACGAGAAAGATGGCCCTAGCTGTCTTAAAGAGTCCCAAGAGACC	240
QY	255	AATGATATTTGCTGTGTATGGAGACGACTACTGCAACAGTTTTACCAAGCATTTGTCAT	31
Db	241	GAGAGAGCTGGGGGCGAGGCGACACACCCACCACCGTCTGTCTCAGAGCTGTGTTCG	300
QY	315	GAGGACATAAAAATGAGACAGAGTACTCTAATCAATTGGTATCCGTGACGAGCATTTGA	37
Db	301	GAGGCGCTGGCACAATGCGACAGCCGCGCCCAACCCGCTGCGCTTAAGCTGGCATCGAG	360
QY	375	ACACGACACGACACAGCTGTTGAGCCTTGAAAGCCATTGCTCAACCTGTATCTGGCAAG	43
Db	361	AAGCGTGTGAGGCTGTCAACCCAGTCTGCTGTGAAGTCGGCCAAAGAGATGTGAGACAG	420
QY	435	GAGCATATTTGTCAGGTCGCGCTGACATATCATCAGGCTGTGAAGAAAGTTGGAGATATAC	49
Db	421	GACACAGATTTTGTGCACACGGGGGGAATTTCCCGCGGAGCAACCCAGATTCGGCAGCTCATC	480
QY	495	TCGAAAGCTATGACAGCTGTGGGACAGCATGTGTGTATTAACATCGAAGATCTCGAGGT	55
Db	481	GCGGAGGCCAATGAGCAAGGTCTGGCAACAGAGGTGTATACCGTCGAGGATGTGAACACC	540
QY	555	ATGGAAGACAGAACTTGAGTGGTTGAAGCATCAATTTGACACCGGTGTACTCTGTCTCAA	61
Db	541	TTGGGCGTGCAGCTCGAGGCTCAACGAGGATATGGCTTGGACAGAGGCTACATCTGGGT	600
QY	615	TACATGTGTACACAGATGAAAAAATGTTTGCAGACCTTGAAAAACCATTTATCTTAATC	67
Db	601	TACTTGTGACCGCAGCGCGAGCGCAAGGAAAGCCGTCTGTGAAGATCTCTCAATCTGTGTG	660
QY	675	ACGAGTAAAAAAGTGTCAACATCTCCAGACATTTTCCACTGACTGTGAGGAAGTCTTAAA	73
Db	661	GTACACTTCAGAGGTGTGACGCTCAAGGATCTGCTCCGCTGTGTGGAAGGTATCCAG	720
QY	735	ACCAACGCTCCATTACTCATTTATTCGAGATGATGTGATGTGTGAAGCACTTCCAACTT	79
Db	721	GCGGCGAAGCCGCTGTATCTACGCGAGAGAGTGTGAAGGAGAGCCCTGTCTCACGCTG	780
QY	795	GTCTTGAACAGATTTGTGTGTACTTTCATATGTGTGTGTGTCAAGGCGCCAGGATTTTGT	85
Db	781	GTGTGTCAACAAGATCCGCGCACCTTCAAGTCCGTGGCGTCAAGGGTCCGGGCTTCGGT	840
QY	855	GATGCTGTAAAGCTGTGTGAGACATTTGTATCTTATTCAGAGGTGGTACAGTATTTACA	91
Db	841	GACCCCGCGCAAGGCGATGCTGTGAGGACATGTGGCCATCTCTACCGGTGTACAGGCTCTACG	900
QY	915	GAGGATCTAGAGCTGAATTTAAAGATGCTACATGACAGCCCTTGGACAGGCTGCTAAG	97


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QY 725. ACAGACGTCATCTACTCATTTTTCAGATGATGTGATGTAAGCACTTCACACCTT 794
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Db 721. GCCGGCAAGCCGCTGTGTATCTATCGCCAGAGAGTGGAGAGCCCTCTCCACGCTG 780
QY 795. GTCTTGACAAAGATTGCGTGTACTTCAATGTGGTGTCTGTCAAAAGCCCGAGATTGGT 854
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Db 781. GTGGTCAACAAAGTCCGGGACCTTCATAGTCGTCGCGCTCAAGGCTCCGGCTTGGT 840
QY 855. GATGCTGTAAAGCTATGCTTGAAGACATGCTATCTTACAGAGTGTACATGATTTACA 914
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Db 841. GACCGCCGCAAGCCATGCTGACAGACATGGCCATCTTCAGGCTGGTCAAGTGTACAGC 900
QY 915. GAGATCTAGAGCTTGAATTAAAGATGCTACATGACACCCCTTGACAGCTGTGAAG 974
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Db 901. GAAAGAGTGGGCTGTCCCTGGAGACCGCGAGCTGTCCCTCTGGGCGAGCCCGCAAG 960
QY 975. ATTACAGTTGATTAAGATAGACAGTATGTTGAAGTTCAGAGTTCAGAACTATT 1034
  || || || || || || || || || || || || || || || || || || || || ||
Db 961. GTGCTGTACCAAGAGAGAGACACCATCTGTGAGGCTCGGGGATTCGATGCCATC 1020
QY 1035. GCTAACCGTATGCACTGATTTAAATCGCAATTAGAAACAAACACTTGTGACTTGAACGT 1094
  || || || || || || || || || || || || || || || || || || || || ||
Db 1021. GCGCGCCGGGTGGCTCAATCCGCGCGAGATGAGAAACAGGACCTCGACTACGACCG 1080
QY 1095. GAAAACTACAGAACTGTTGGCAATTAGCTGGTGGTGAAGTGTATTCAAAGTAGA 1154
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Db 1081. GAGAACCTGACAGAGACCGCTGCGCAAGCTGCGCGGCTGTGGTGTATCAAGGCGGA 1140
QY 1155. GCTCCAAAGAGACAGCTTTAAAGAAATGAATCTTCGATTTGAGATGCTCTAAATGCT 1214
  || || || || || || || || || || || || || || || || || || || || ||
Db 1141. GCTGCCACGAGGTGAGACTTCAGAGGACGCAAGCACCGCATCGAGAGCGCGCCGCAAC 1200
QY 1215. ACACGTGACAGCCGTTGAAGAGTATGTTGGTGGTGGAGACACTTATTAGGTT 1274
  || || || || || || || || || || || || || || || || || || || || ||
Db 1201. GCGAAGGCTGCCGCTGAAGAGGCGATCGCGCGGCTGGCGCTGTCTGTGCACTGTG 1260
QY 1275. ATTGAAAAGTAGACAGCTCTTGAGCTTGAGGCGCATGATGCTACTGAGACGTAACTGTG 1334
  || || || || || || || || || || || || || || || || || || || || ||
Db 1261. GCTCCTGCGCTGAGACAGCTGCGCGCTGAGCGGCGAGCGGCTGCGCAACATCGTC 1320
QY 1335. CTTGCTGCTTAGAAGACCTGTACGTCAAAATGCTTAAATGCTGGGTACGAAGGCTCC 1394
  || || || || || || || || || || || || || || || || || || || || ||
Db 1321. CCGGTGGCGCTGTGCTCGCTCGCTCAAGCAGATCGCTTCACAGGCGCCCTGAGGCCG 1380
QY 1395. GTAGTTATTGACAGTTGAAAACACCCCTGAGAGACAGATTTAATGCTGCAACAGGT 1454
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Db 1381. GTCTGTCGCGAGAAAGTGTCAACCTGCGCGGCTCACGCGCTCAACGCGCGAGACG 1440
QY 1455. GAGTGGTGTATGATTAATAACAGAAATCATATTGACCTGTCAAAAGTAAACAGATCAGC 1514
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Db 1441. GAGTACGAGAGACCTGCTCAAGCGCGCGCTGCGCGAGGAGTCAACCGCTCGGCG 1500
QY 1515. CTTCAAAATGACAGCTTGTGAGCTAGTCTTAATTTTGACACACAGACATGTTCTTAAT 1574
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Db 1501. CTGCGAAGACGGGGCTCATCGGCTGTCTTCTCAACACGAGGCGCTGTGCGCGAC 1560
QY 1575. AAACCTGA 1582
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Db 1561. AAGCCGGA 1568
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RESULT 15
US-08-987-362-113
; Sequence 113, Application US/08997362
; Patent No. 5985287
; GENERAL INFORMATION:
; APPLICANT: Tan, Paul
; APPLICANT: Hiya, Jun
; APPLICANT: Visser, Elisabeth
; APPLICANT: Skinner, Margot
; APPLICANT: Scott, Linda
; APPLICANT: Prestidge, Ross
; TITLE OF INVENTION: COMPOUNDS AND METHODS FOR

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; TITLE OF INVENTION: TREATMENT AND DIAGNOSIS OF MYCOBACTERIAL INFECTIONS
; NUMBER OF SEQUENCES: 194
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Law Offices of Ann W. Speakman
; STREET: 2601 Elliott Avenue, Suite 4185
; CITY: Seattle
; STATE: WA
; COUNTRY: USA
; ZIP: 98121
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FASTSEQ for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/997,362
; FILING DATE:
; CLASSIFICATION:
; PRIORITY APPLICATION DATA:
; APPLICATION NUMBER: U.S. Patent Application No. 5985287 08/07/3,970
; FILING DATE: June 12, 1997
; APPLICATION NUMBER: U.S. Patent Application No. 5985287 08/07/05,347
; FILING DATE: August 29, 1996
; ATTORNEY/AGENT INFORMATION:
; NAME: Sleath, Janet
; REGISTRATION NUMBER: 37,007
; REFERENCE/DOCKET NUMBER: 11000.1002c2
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 206-269-0565
; TELEFAX: 206-269-0563
; TELEX:
; INFORMATION FOR SEQ ID NO: 113:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1569 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: Genomic DNA
; US-08-997-362-113

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Query Match 26.8%; Score 444.8; DB 2; Length 1569;
Best Local Similarity 55.2%; Pred. No. 9,4e-122;
Matches 866; Conservative 0; Mismatches 702; Indels 0; Gaps 0;

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QY 15. ATGGCAAAAGAAATCAAAATTTTCAAGAGATGGCGGTCTGCCATGCTGCGGAGTTGAT 74
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Db 1. ATGGCAAAAGAAATTTGCTATGACAGAGAGGCCCGCGTGGCTGAGCGGGGCTCAAC 60
QY 75. ATGTGACGATACCGTCAAGATACCTTGTGCTTAAAGGGGCAATGTTCTTGA 134
  || || || || || || || || || || || || || || || || || || || || ||
Db 61. GCCCTGAGAGCGCGCTAAAGTACGTTGGCCCGCAAGGGTGCAGACGTGCTGGAG 120
QY 135. AAAGCTTTTGGTCTCCCTTAATTAATGACGGGGTAAACATTGCTAAAGAGATGAA 194
  || || || || || || || || || || || || || || || || || || || || ||
Db 121. AAGAAGTGGGGGCCCCCAGATACCAAGAGATGCTGCTCATGCGCCCAAGAGATGAG 180
QY 195. TTGAAGATCATTTTGAAGAAACATGAGCAAAATTTGCTGAAAGGCTTTAAACC 254
  || || || || || || || || || || || || || || || || || || || || ||
Db 181. CTGGAGACCGCTTACGAAAGATGGGCTGACCTGTCAAAAGAGTGGCCAAAGAAC 240
QY 255. AATGATATTGCTGTGATGAGGACGACACTACGCAAGTTTGAACAAGCATTTGTCAT 314
  || || || || || || || || || || || || || || || || || || || || ||
Db 241. GACGAGCTGCGGGGAGGAGGACCAACGCGGACGCTGCTGCTCAGAGCTGTGCTCC 300
QY 315. GAAGGACTAAATAATGACAGAGAGGTGCTAATTCATATTGATCCGTGAGGCAATGAA 374
  || || || || || || || || || || || || || || || || || || || || ||
Db 301. GAAAGCTGCGCAAGCTGCGAGCGGGGCGCAACCGCTGCGCTCAACCGTGGCATGAG 360
QY 375. ACAGCAAGCAAGACAGCTGTTGAAGCCTTGAAGAGCATGCTCAACGCTGATGCGAAG 434
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Db 361. AAGGCTGTGAGGCTGTACACCAAGTGCCTGTGGAAGTGGGCAAGAGGTGAGNCCAG 420

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QY 435 GAGCTATTGCTCAGTCCGTCGAGTATCATCACGCTCTGTGAAAAAGTTGGAGATATATC 494
DB 421 GAGCAGATTCTCTCCACCCGCGGAGATTTCGCGCGCACCCCGAGATCGGAGCTCATTC 480
QY 495 TCAGAACCTATGAGCGGTGTGGCAACGATGGTGTGATTACCATCGAAGAACTCGAGGT 554
DB 451 GCCGAGCGCATGGACAAGGTTCGGCAACGAGGTGTCTCATCACCGTCGAGAGGTGAACACC 540
QY 555 ATGGAACACAGACTTGAAGTGGTGAAGCATGCAATTGACCGGTGATTACTGTCTCAA 614
DB 541 TTGCGCCTGCAGCTCAGGCTCACCCGAGGTATGCGCTTCGACAGAGGCTCATCTCGGCT 600
QY 615 TACATGCTCAGACATGAAAAATGGTGTGACAGCTTGAAAAACCATTTATCTTAATC 674
DB 601 TACTTCGTGACCCAGCCGAGCGCCGAGAGGCCGTCCGAGAGATCCCTCATCTCTGCTG 660
QY 675 ACGGATAAAAAGTGTCAAAACATCCAGACATTTTGCCTACTTGAAGAGTTCTTAAA 734
DB 661 GTCAGCTCCAGAGGTGTGACCGCTCAAGGATCTGCTCCGCTGTGGAAGAGTCAATCCAG 720
QY 735 ACCAACCGTCATTACTCATTTATGAGATGATGTGATGATGAGTGAAGCACTTCCAACTCT 794
DB 721 GCCGCGCAAGCCGCTGTGATTCGCGAGAGACGTGAGGGCGAGGCCCTGTCTCACGCTG 780
QY 795 GTCTTGAACAAGATTGCTGCTACTTCAATGTGCTGTCTCAAGCGCCAGATTGCT 854
DB 781 GTGCTCAACAAGATCCGCGGACACTTCAAGTCCGTCGCGCTCAAGGCTCCGGGCTTCGCT 840
QY 855 GATGCTGTAAAGCTATGCTTGAAGACATTCCTTCTTGAAGGTGTACAGTATATACA 914
DB 841 GACGCGCGCAAGCGCATGTGAGGACATGCGCATCTCACCGGTGTGAGTCTGTCAGC 900
QY 915 GAGGATCTAGGACTTGAATTAAGATGCTACATGACACCCCTTGAGAGGCTGTAAAG 974
DB 901 GAAAGAGTGGGCTGTCCCTGAGAACCGCCGACGCTCTGCTGTGGCCAGGCCCGCAAG 960
QY 975 ATTACAGTTGATTAAGATAGCAAGTAAATTTGTAAGGTTACAGAACTTACAGACTATT 1034
DB 961 GTGCTGTGACCAAGAGGAGAGACCATCTGCTGAGGGCTCGGGCGATTCCGATCCATTC 1020
QY 1035 GCTAACCGTATTGCACTGATTAATTCGCAATTAGAAAACAACACTCGACTTGTACCGCT 1094
DB 1021 GCCGGCGGGGTGGCTCATATCCGCGCGAGATGAGAACAGGACTCCGACTACGACCGC 1080
QY 1095 GAAAAACTACAAAGAACGTTTGGCGAAATTAAGCTGTGTGTAGCTGTTATCAAAAGTGA 1154
DB 1081 GAGAACTCTCAGGAGCGGCTGCGCAACTGGCGCGGCTGTGCGGTATCAAGCGCGA 1140
QY 1155 GCTCCACAGACACAGCTTTAAAGAAATGAACCTTGCATTGAGGATGCTCTAAATGCT 1214
DB 1141 GCTGCCACCGAGTGGAGCTCAAGAGCGCAACACCGCATGAGGACCGCTCCGCAAC 1200
QY 1215 ACACGTGCAAGCCGTTGAAGAAAGTATCGTGTGTGTGTGAACAGCACTTATTACGGTT 1274
DB 1201 GCGAAGGCTGCGGTGGAAGAGGATGCGCGGTGTGTGTGTGTGTGTGTGTGTGTGTGT 1260
QY 1275 ATTGAAAAAGTAGACGCTTGTGACCTTGAAGGCGATGATGCTACTGAGATTAACATTGTG 1334
DB 1261 GCTCTGTGCGTGAAGACGTGGCTGTGAGGGCGAGAGCCAGCGGTGCCAACATCTGTC 1320
QY 1335 CTTCGTGCTTGAAGAGCCGTGTACGTAATTTGCTTAAATGCTGTGTGTGTGTGTGTGTGT 1394
DB 1321 CCGGTGGGCTGT 1380
QY 1395 GTAGTTATTGACAAAGTTGAAAAACAGCCCTGACAGAACAGATTTAATGTGCAACAGGT 1454
DB 1381 GTCTGTGCGGAGAAAGTGTCCAACTGCGCGGGGTCAAGGCTCAAGCGCGGACCGGT 1440
QY 1455 GAGTGGGTTGATGATTAATAACAGAAATCATTTGACCCGTCAAGTAAACAGATCAAGCG 1514
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QY 1515 CTTCAAAAATGCAAGCTTGTAGCTTATTTTGTGACAAAGAGCAGTTGTTGCTAAT 1574

DB 1501 CTGAGAAAGCGGGGCTCATCGCGGCTGTGTTCTCAACACGAGAGCCGTCTCGCGAC 1560
QY 1575 AAACCTGA 1582
DB 1561 AAGCCGGA 1568

Search completed: November 9, 2001, 11:32:49
Job time: 6025 sec

